

G. 1A

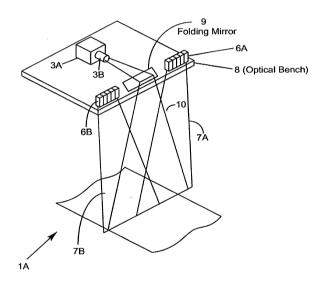


FIG. 1B1



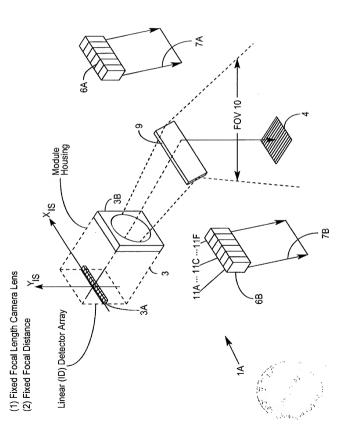
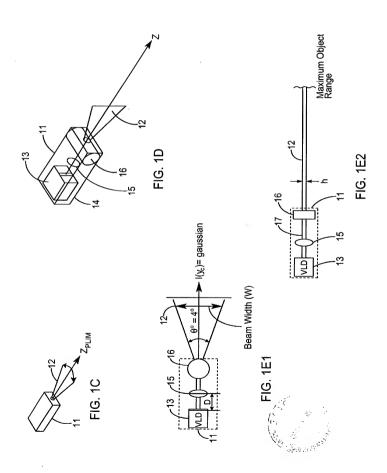
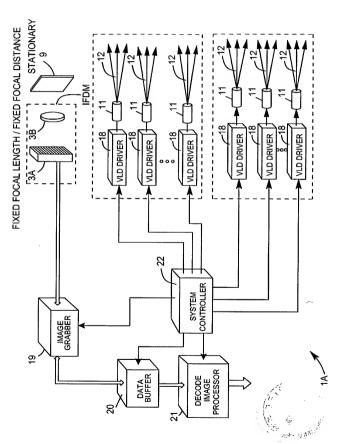
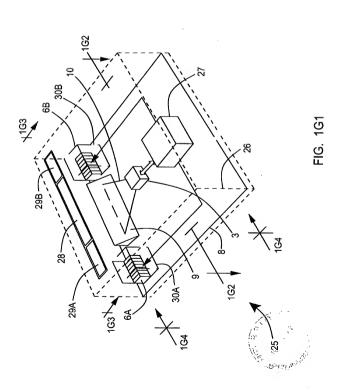


FIG. 1B2





IG. 1F



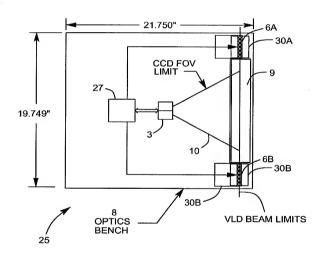
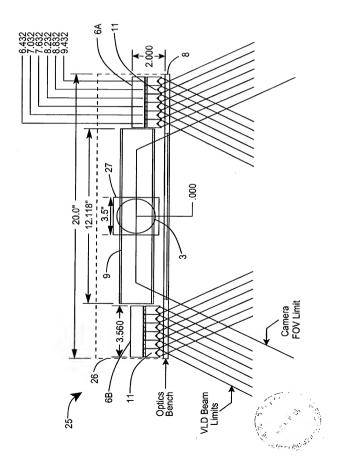
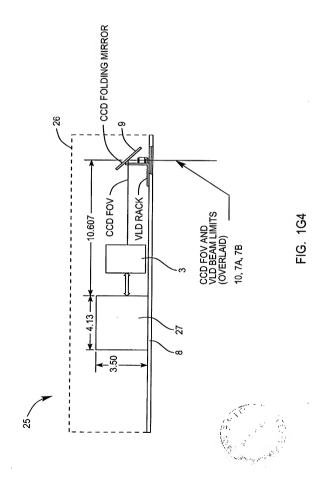


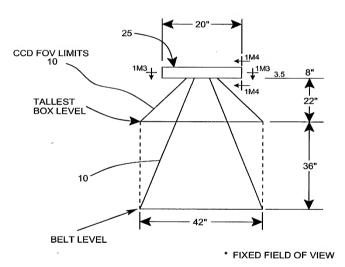
FIG. 1G2





IG. 1G3





· /*



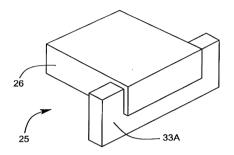
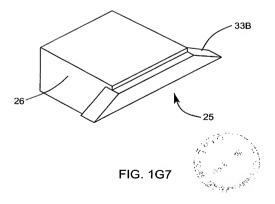
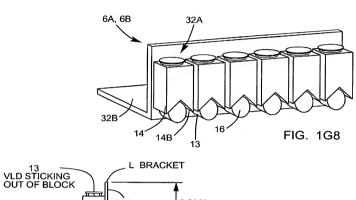
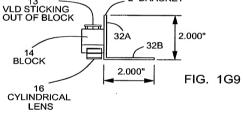


FIG. 1G6







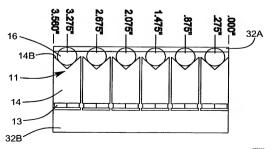


FIG. 1G10

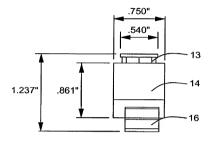


FIG. 1G11

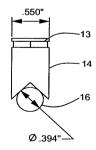


FIG. 1G12



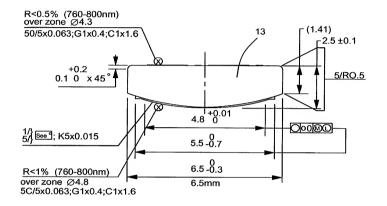


FIG. 1H1

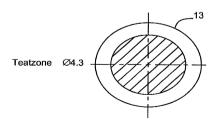
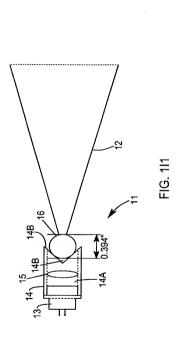


FIG. 1H2





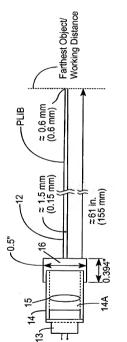


FIG. 112



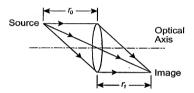


FIG. 1J1

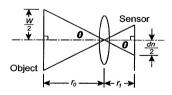


FIG. 1J2



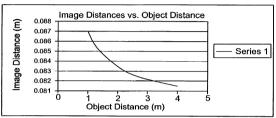


FIG. 1J3

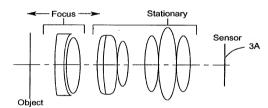


FIG. 1J4

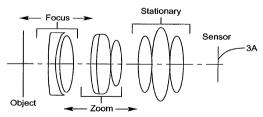
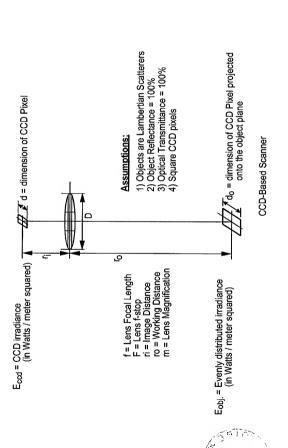


FIG. 1J5





G. 1J6

Fixed Focal Length Lens Cases

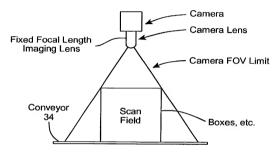


FIG. 1K1

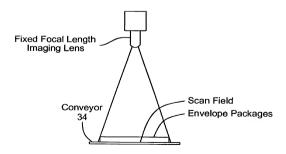


FIG. 1K2

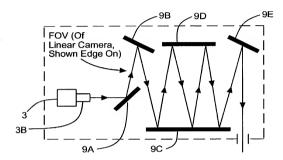
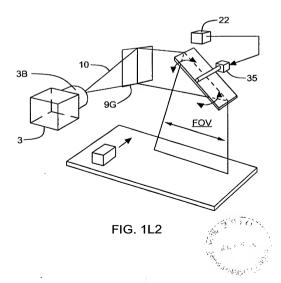


FIG. 1L1



Pixel Power Density vs. Object Distance (General Example)

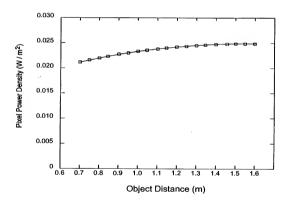


FIG. 1M1



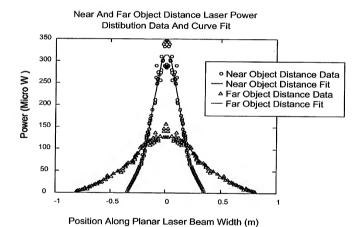


FIG. 1M2





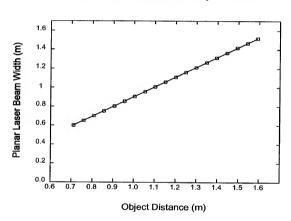
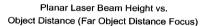


FIG. 1M3





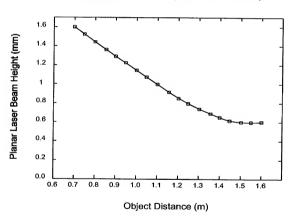


FIG. 1M4



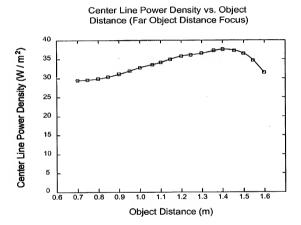


FIG. 1N



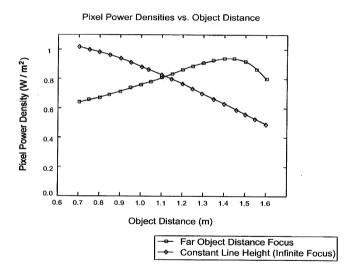


FIG. 10



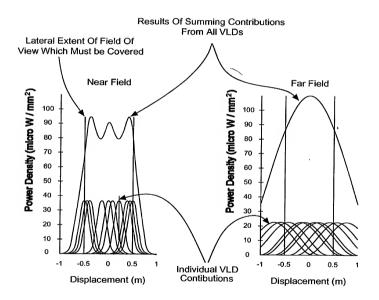
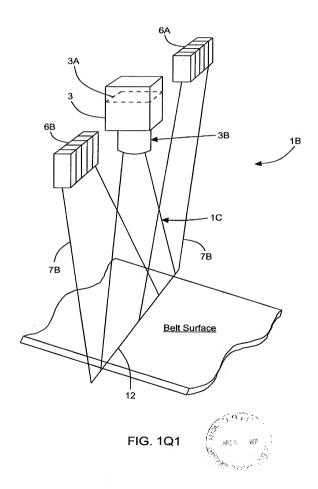
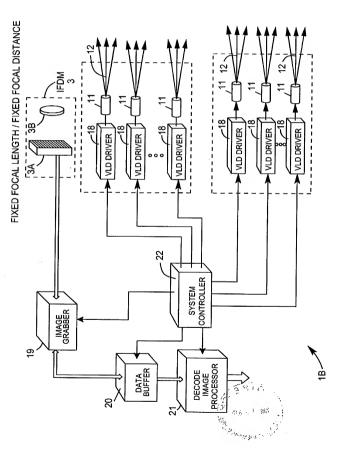


FIG. 1P1

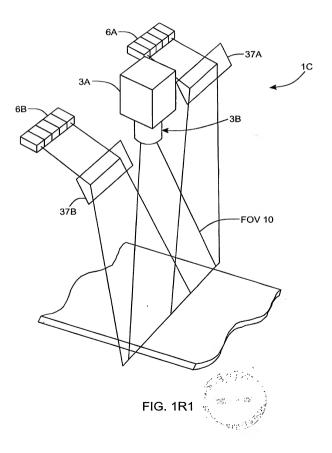
FIG. 1P2

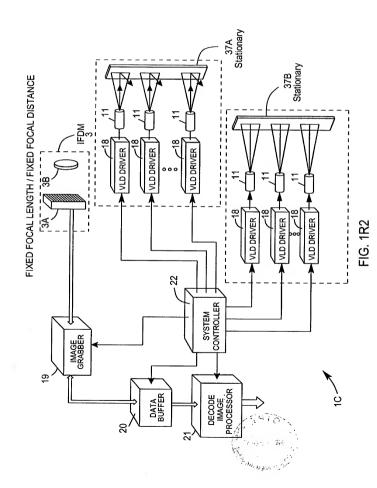


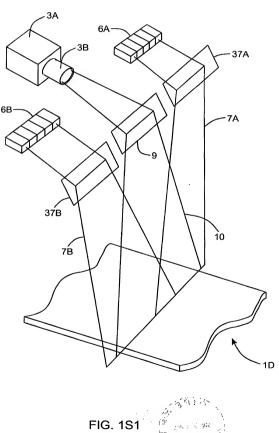




16.102







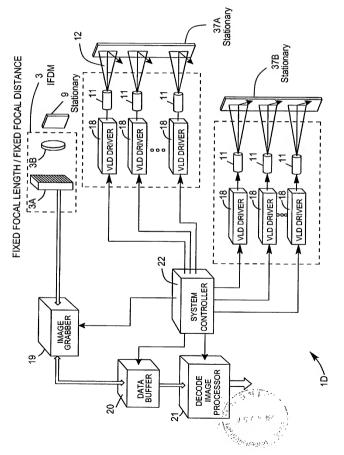


FIG. 1S2

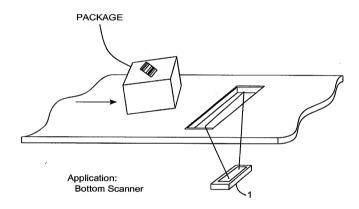
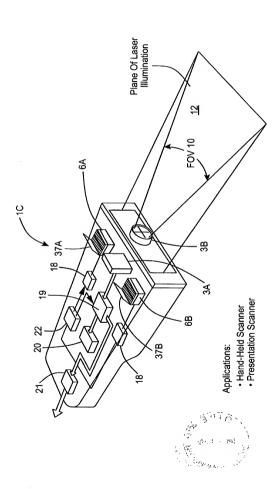
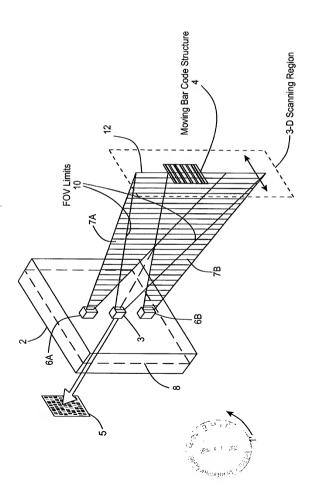


FIG. 1T





10.1



17.1

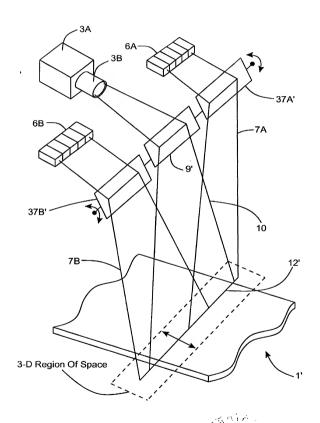


FIG. 1V2

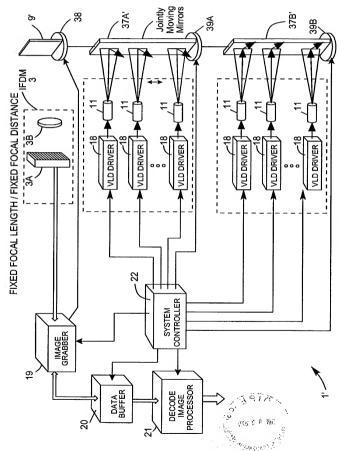


FIG. 1V3

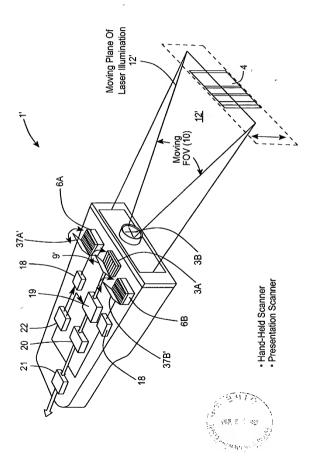
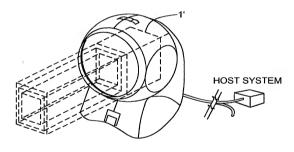
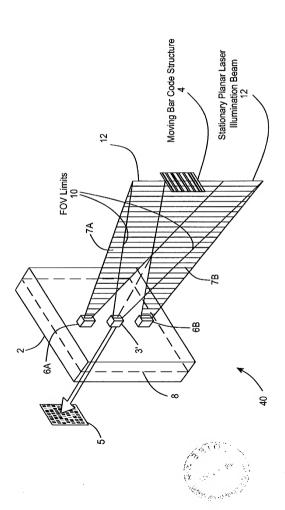


FIG. 1V4



PRESENTATION TYPE SCANNER



IG 2A

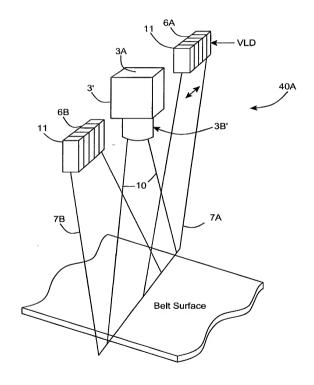
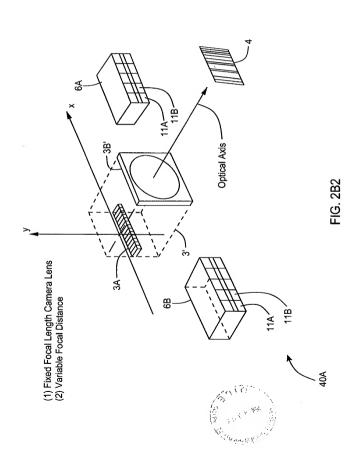
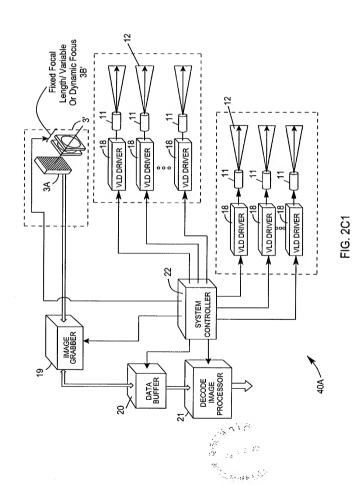


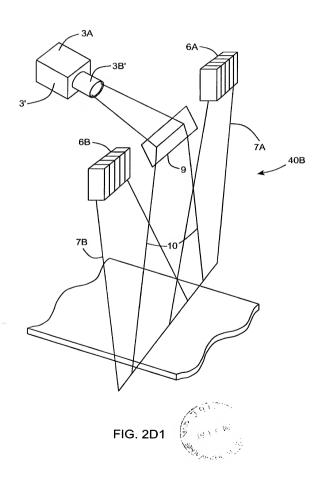
FIG. 2B1

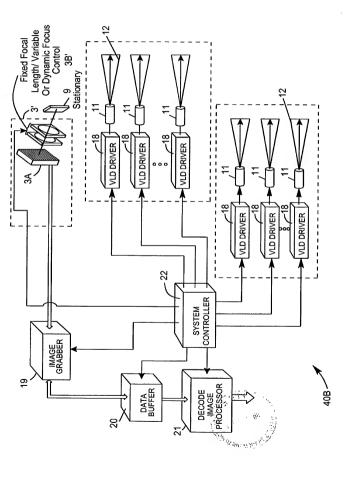




 Fixed Focal Length Imaging Lens
 Variable Or Dynamic Focus Control 3A1 ဗ္ဗ

FIG. 2C2

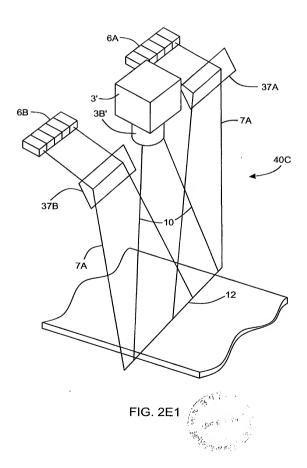


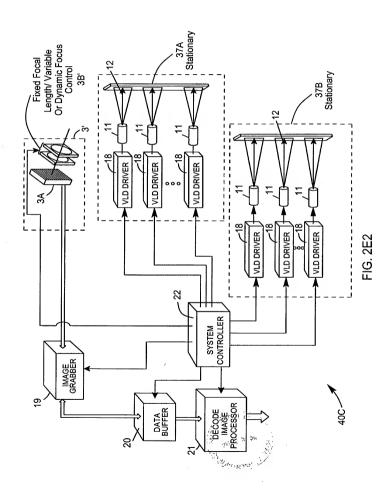


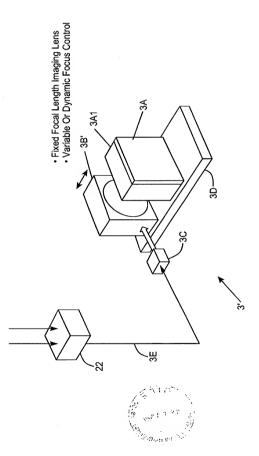
IG. 2D2

 Fixed Focal Length Imaging Lens
 Variable Or Dynamic Focus Control 341 7 3B' 8

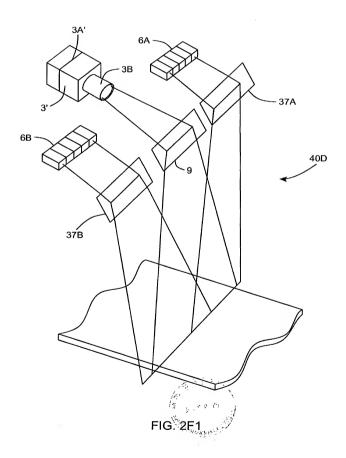
FIG. 2D3







IG. 2E3



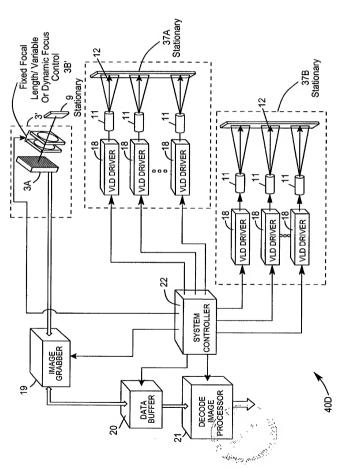


FIG. 2F2

 Fixed Focal Length Imaging Lens
 Variable Focus Or Dynamic Focus Control 3A1

IG. 2F3

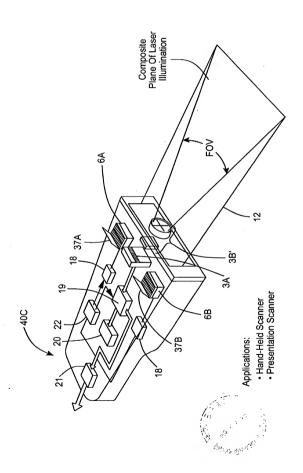
Top Conveyor Scanner:

- Fixed Focal Length Imaging Lens
- Variable Focal Distance Control

Side Conveyor Scanner: • Fixed Focal Length Imaging Lens • Dynamic Focal Distance Control

FIG. 2G





IG. 2H

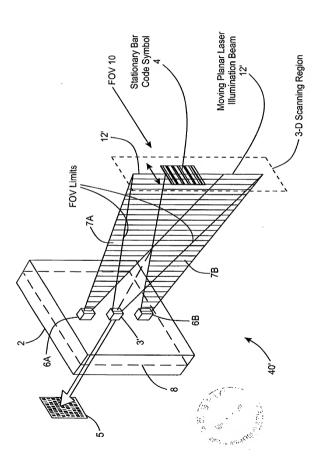
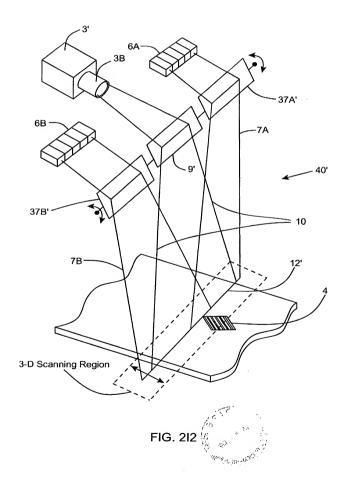


FIG. 211



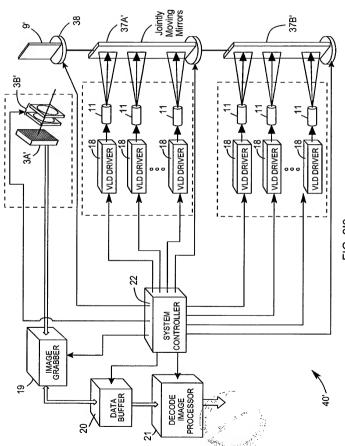
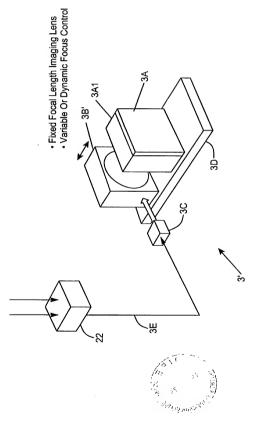
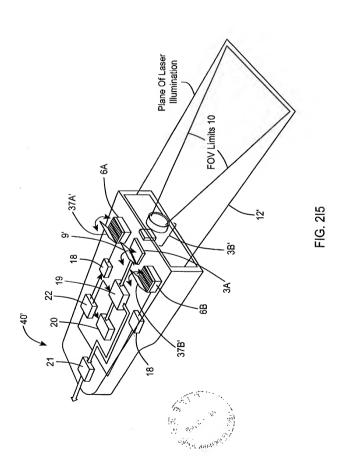


FIG. 213



IG. 214



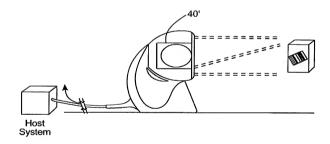


FIG. 216

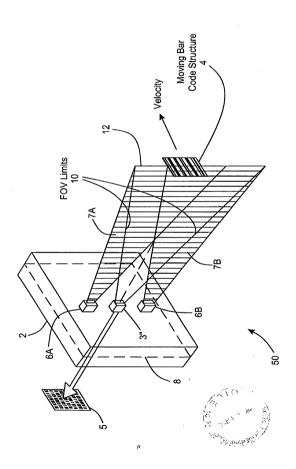
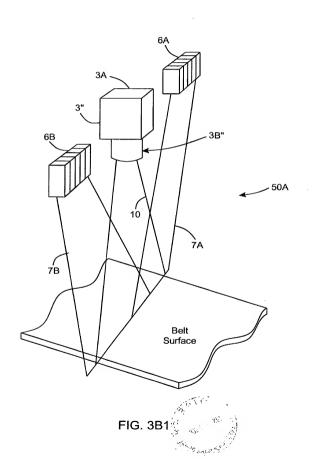


FIG. 3A



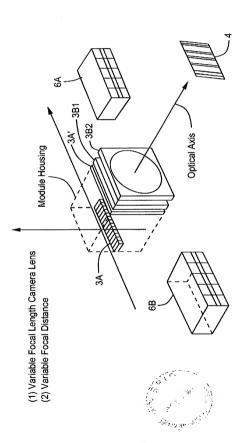


FIG. 3B2

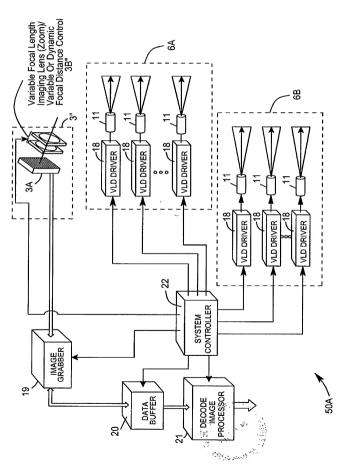


FIG. 3C1

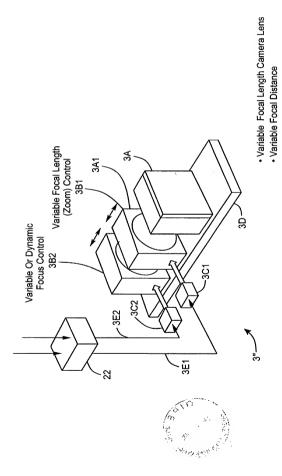


FIG. 3C2

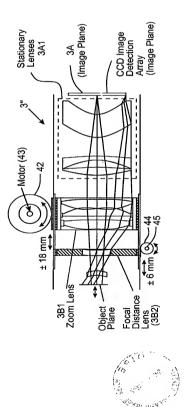
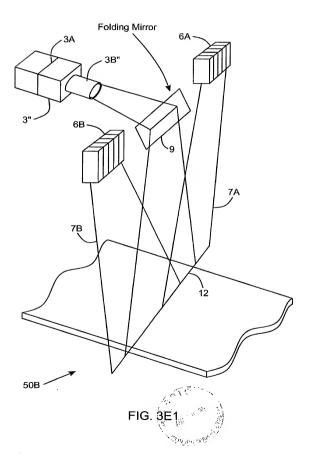
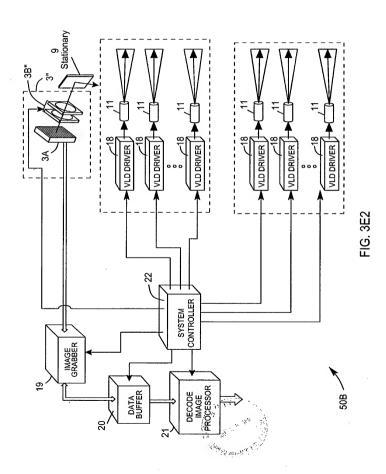


FIG. 3D





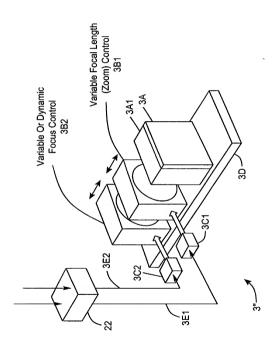
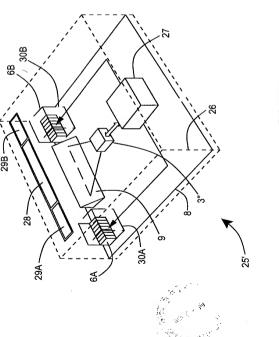


FIG. 3E3





748 51

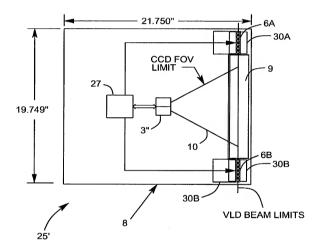


FIG. 3E5

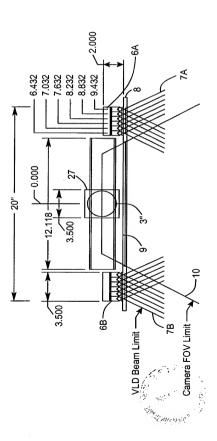


FIG. 3E6

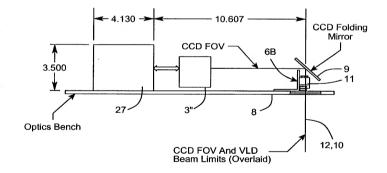
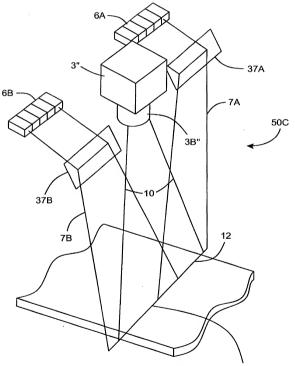


FIG. 3E7

* VARIABLE FOV CCD FOV LIMITS 1M3 1M3 1M4 1M3 1M3 1M4 1M3 3.5 8" 22" BELT LEVEL

FIG. 3E8



Stationary Planar Laser Beam

FIG. 3F1

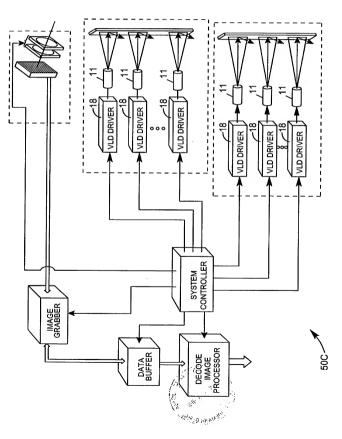


FIG. 3F2

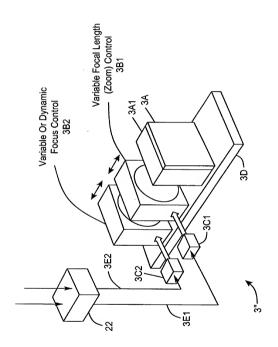
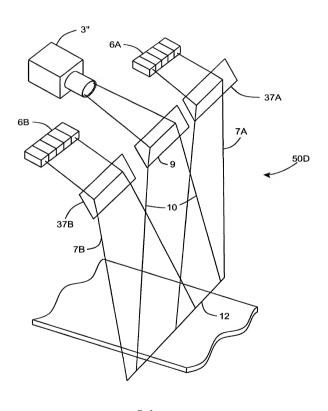


FIG. 3F3







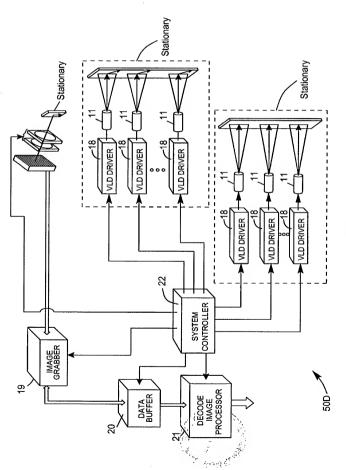


FIG. 3G2

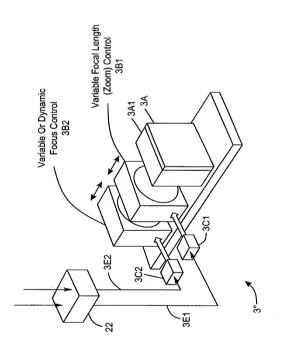
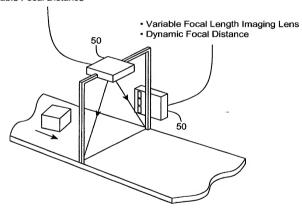
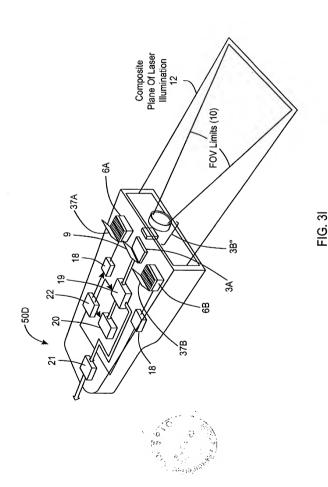


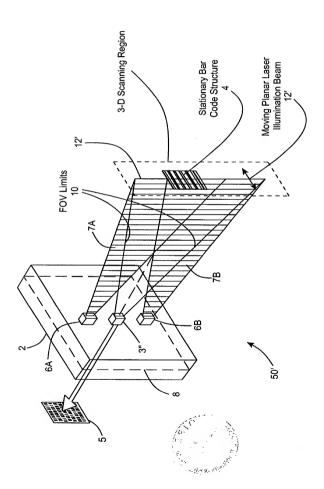
FIG. 3G3



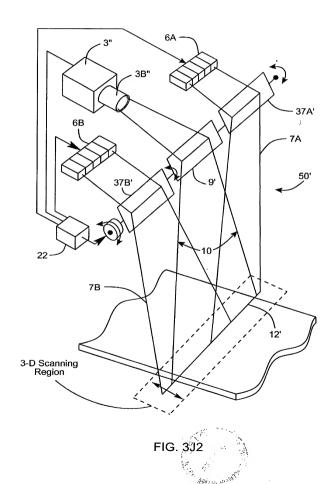
- Variable Focal Length Imaging Lens Variable Focal Distance

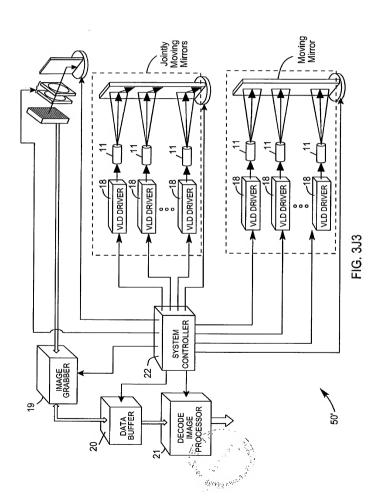






G. 331





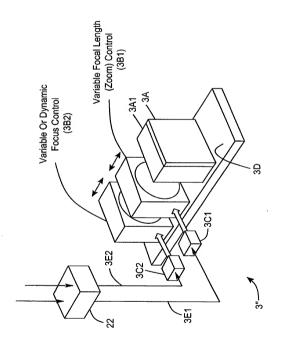
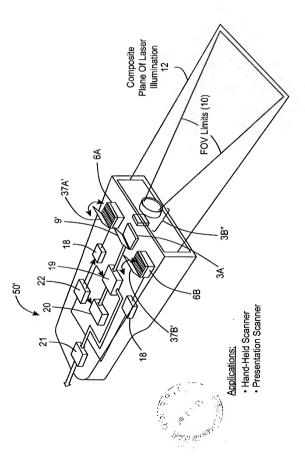
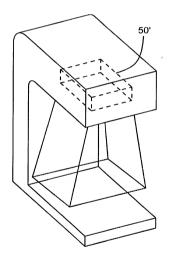


FIG 3.14





3.5



2-D Hold-under Scanner

FIG. 3J6/1

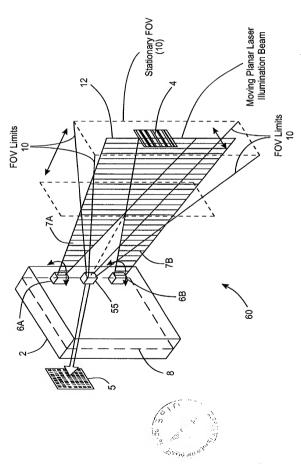
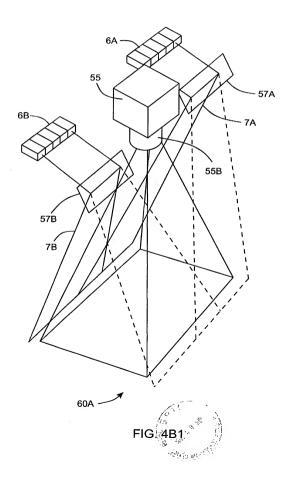


FIG. 4A



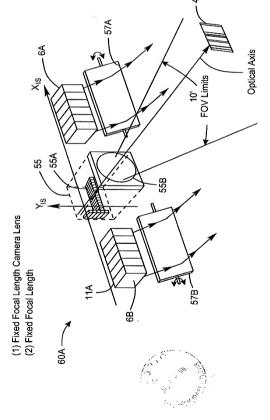
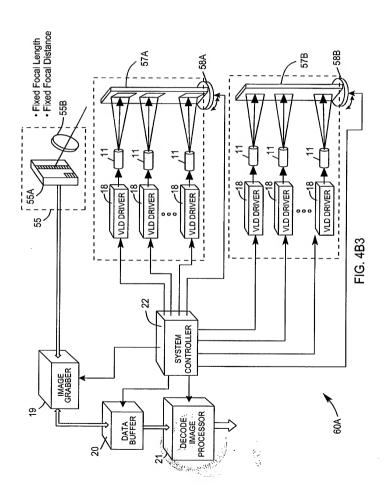
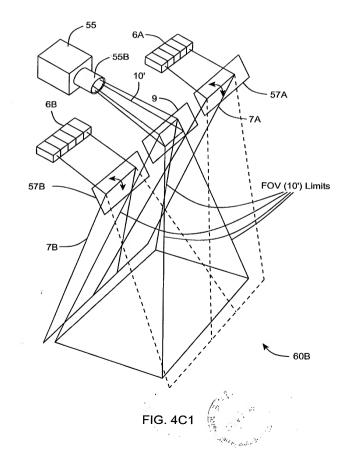
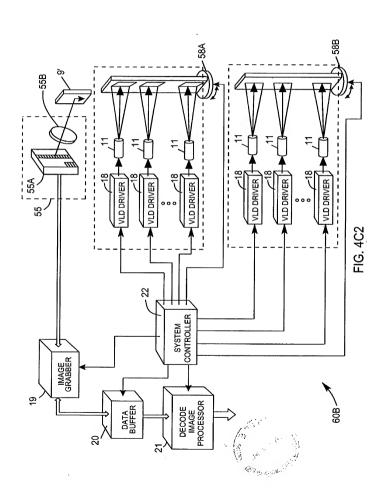
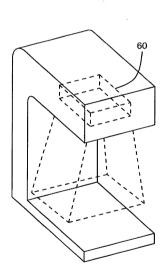


FIG. 4B2





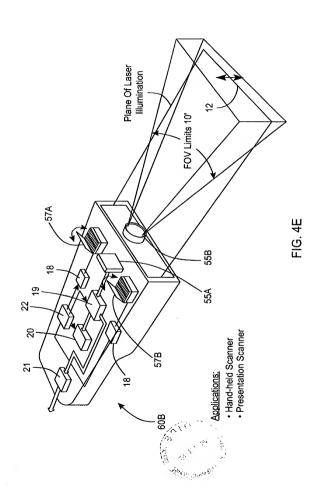




2-D Hold-under Scanner

FIG. 4D





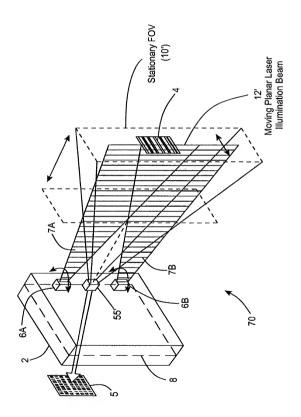


FIG. 5A

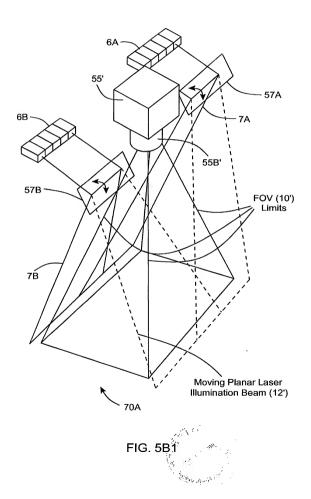
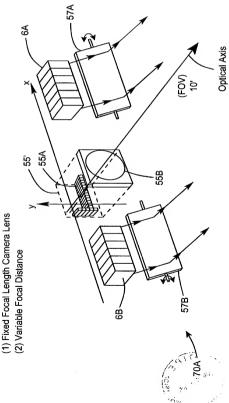
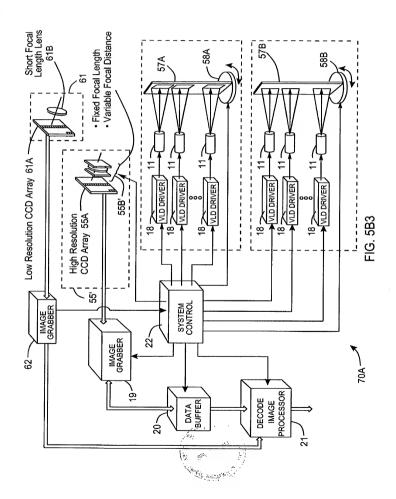


FIG. 5B2



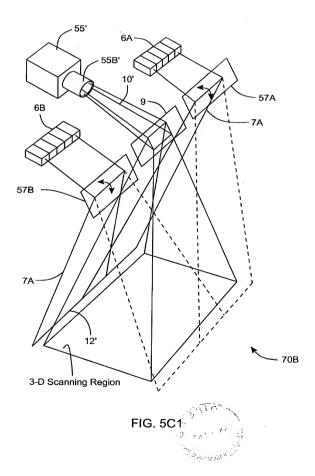
(1) Fixed Focal Length Camera Lens



 Fixed Focal Length Imaging Lens
 Variable Focal Distance Control . 55A 55B1' .55B2' 55D -- 55C **55E**

FIG. 5B4





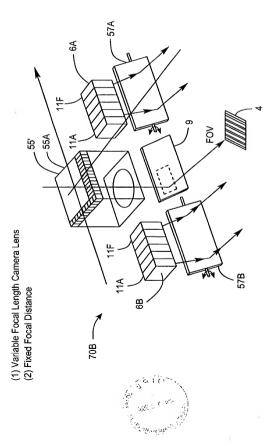
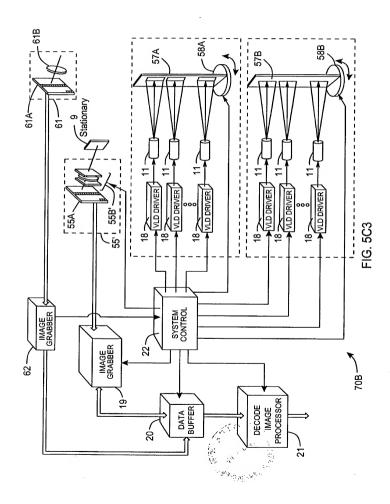


FIG. 5C2



 Fixed Focal Length Imaging Lens
 Variable Focal Distance Control .55B1' ~55B2' 55D - 55C 55E

IG. 5C4

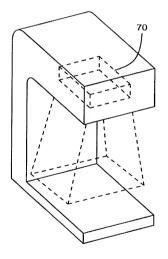


FIG. 5D



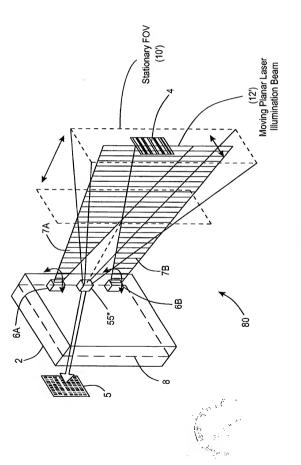
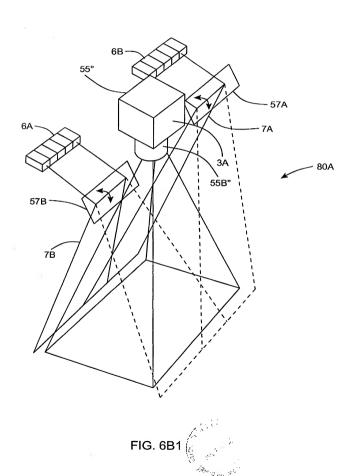


FIG. 6A



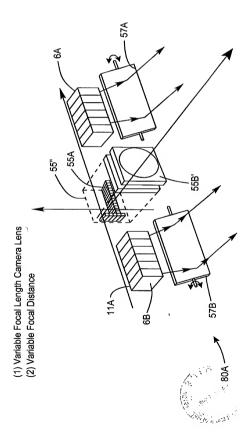
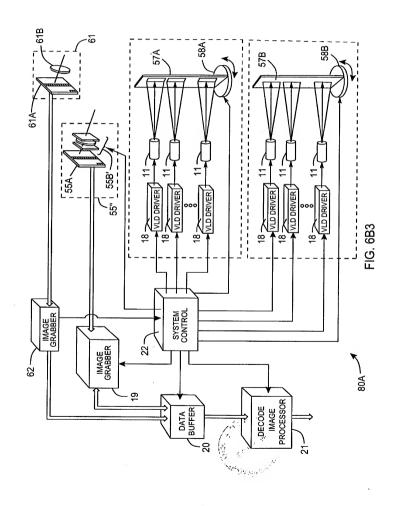


FIG. 6B2



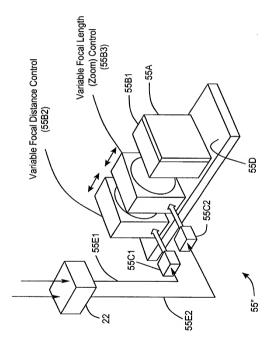
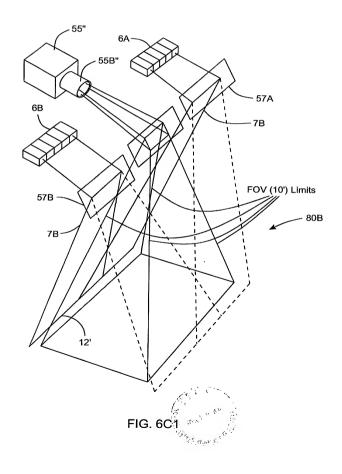


FIG. 6B4





(1) Variable Focal Length Camera Lens (2) Variable Focal Distance



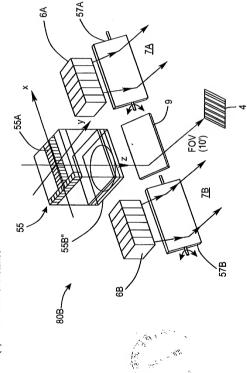
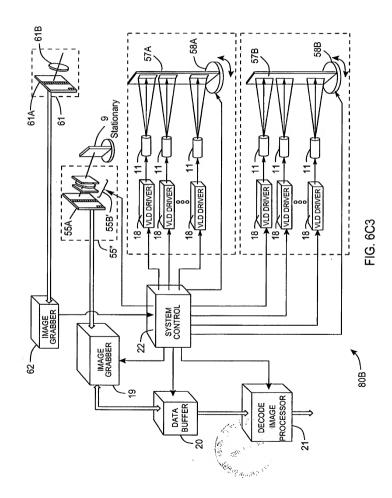


FIG. 6C2



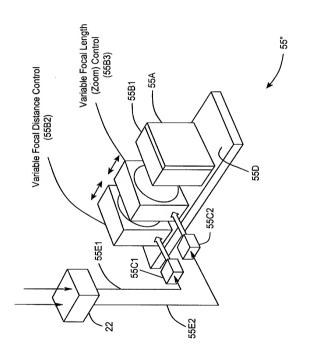
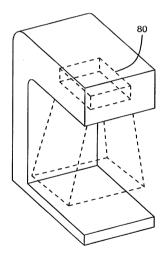


FIG. 6C4





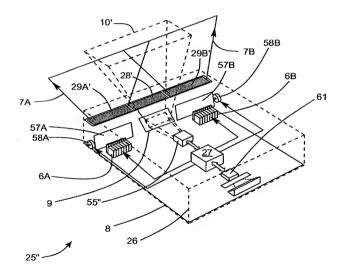
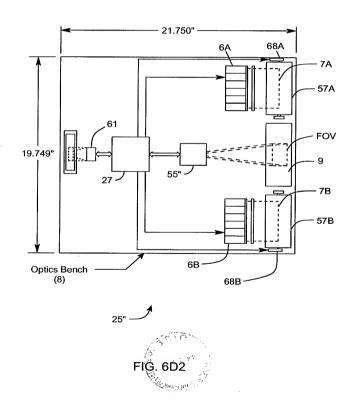


FIG. 6D1



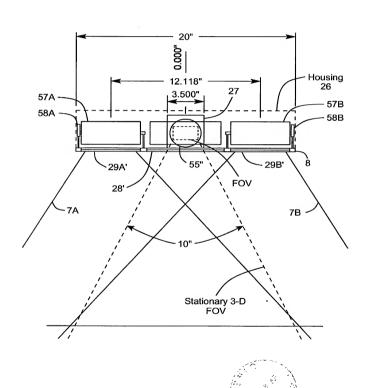


FIG: 6D3

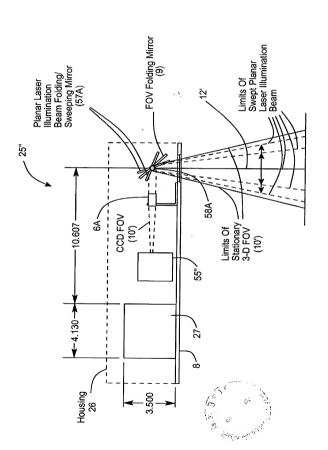


FIG. 6D4

VARIABLE FOV

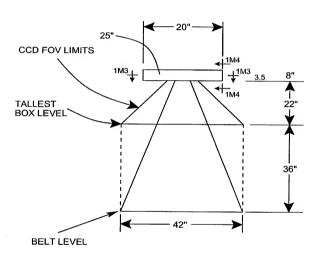
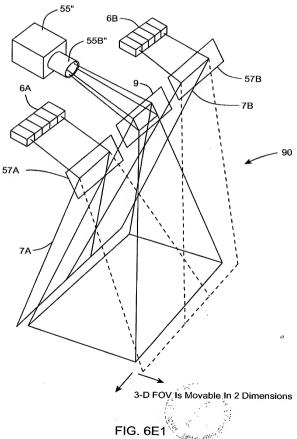


FIG. 6D5



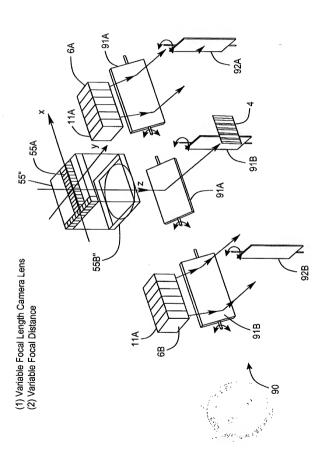


FIG. 6E2

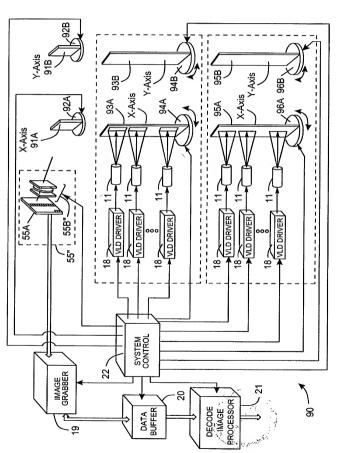
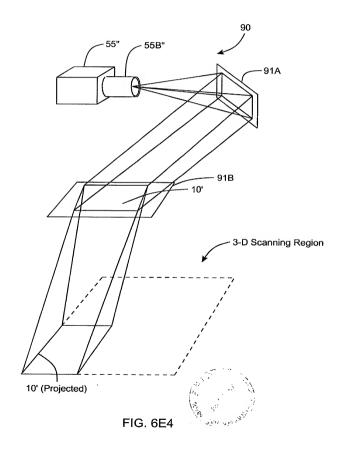


FIG. 6E3



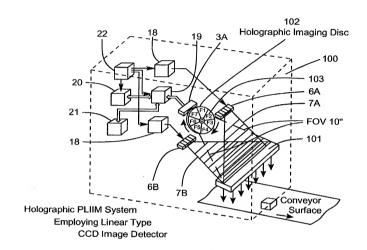
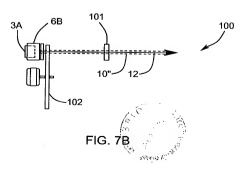


FIG. 7A



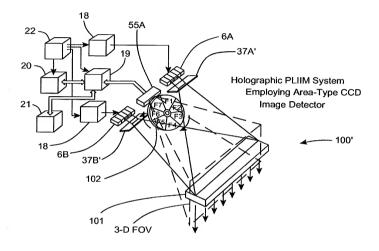
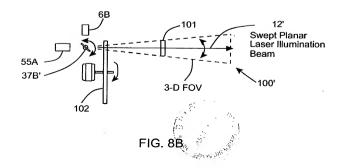


FIG. 8A



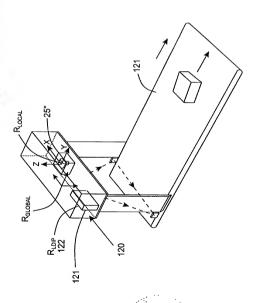
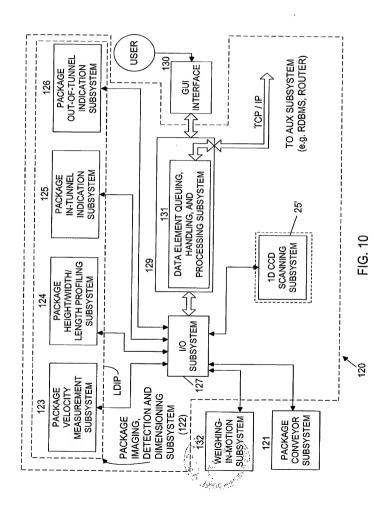
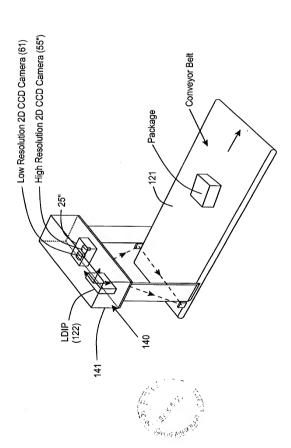
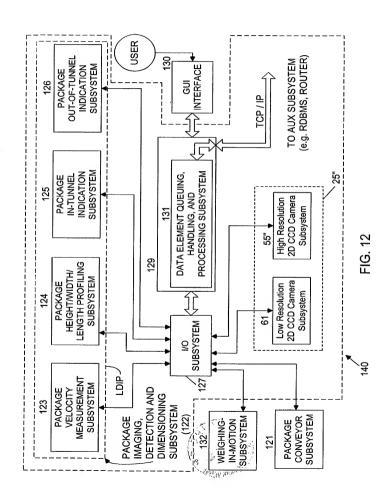


FIG. 9





5



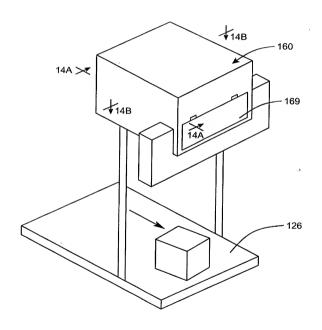
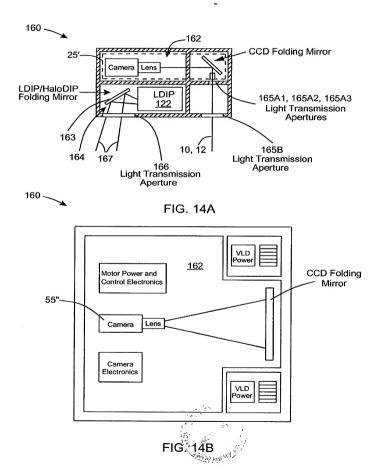


FIG. 13



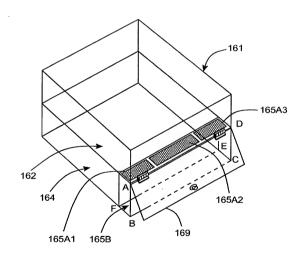


FIG. 15

